

Amendments to the Claims

The listing of claims will replace all prior version, and listings, of claims in the application.

Listing of Claims

Claim 1 (currently amended): A clean bench, comprising:
a cabinet;
a particle-conducting basin arranged in the upper portion of said cabinet;
an adjustable canopy arranged above said particle-conducting basin,
defining a working space with said particle-conducting basin;
a fan arranged under said particle-conducting basin of said cabinet; and
a filter arranged under said particle-conducting basin of said cabinet,
wherein particles existing in said working space will come through said
particle-conducting basin and then be directed into said fan and said filter.

Claim 2 (original): The clean bench according to claim 1, wherein said fan is
a centrifugal fan.

Claim 3 (original): The clean bench according to claim 1, wherein said filter is
a HEPA filter.

Claim 4 (original): The clean bench according to claim 1, wherein said filter is
a ULPA filter.

Claim 5 (original): The clean bench according to claim 1, wherein said filter further comprises a HEPA pre-filter.

Claim 6 (original): The clean bench according to claim 1, wherein said filter further comprises a ULPA pre-filter.

Claim 7 (original): The clean bench according to claim 1, wherein said particle-conducting basin comprises a bottom partition with plural outlets and four side walls.

Claim 8 (original): The clean bench according to claim 7, wherein said four side walls have a slope profile.

Claim 9 (original): The clean bench according to claim 7, wherein said four side walls have a sticky surface toward said working space.

Claims 10-11 (cancelled)

Claim 12 (currently amended): ~~The clean bench according to claim 1, wherein said adjustable canopy is a half cylindrical adjustable canopy.~~ A clean bench, comprising:

a cabinet;

a particle-conducting basin arranged in the upper portion of said cabinet;

a half-cylindrical adjustable canopy arranged above said particle-conducting basin, defining a working space with said particle-conducting basin;

a fan arranged under said particle-conducting basin of said cabinet; and

a filter arranged under said particle-conducting basin of said cabinet, wherein particles existing in said working space will come through said particle-conducting basin and then be directed into said fan and said filter.

Claim 13 (original): The clean bench according to claim 12, wherein said half-cylindrical adjustable canopy comprises a front quarter-cylindrical movable canopy and a back quarter-cylindrical fixed canopy.

Claim 14 (original): The clean bench according to claim 13, wherein said front quarter-cylindrical movable canopy comprises a glove port.

Claim 15 (original): The clean bench according to claim 13, wherein said front quarter-cylindrical movable canopy is made of a transparent material.

Claim 16 (original): The clean bench according to claim 13, wherein said back quarter-cylindrical fixed canopy has a sticky surface toward said working space.

Claims 17-39 (cancelled)

Claim 40 (new): The clean bench according to claim 12, wherein said fan is a centrifugal fan.

Claim 41 (new): The clean bench according to claim 12, wherein said filter is selected from the group consisting of a HEPA filter and a ULPA filter.

Claim 42 (new): The clean bench according to claim 41, wherein said filter further comprises a pre-filter, and said pre-filter is selected from the group consisting of a HEPA pre-filter and a ULPA pre-filter.

Claim 43 (new): The clean bench according to claim 12, wherein said particle-conducting basin comprises a bottom partition with plural outlets and four sloping side walls.

Claim 44 (new): The clean bench according to claim 43, wherein said four sloping side walls have a sticky surface toward said working space.

Amendments to the Drawings:

The attached sheets of replacement drawings includes changes to Figures 2A-2B.

In Figure 2A, the previous element “centrifugal fan 205” has been amended to show the profile of its essential component “impellers”, making the differentiation with “a conventional propeller fan”.

In Figure 2B, to show the profiles of “front quarter-cylindrical movable canopy 219” and “back quarter-cylindrical fixed canopy 221”, the previous element “half-cylindrical adjustable canopy 217” has been amended. To show the “sloping” profile of the four side walls, the particle-conducting basin 213 has been amended.